WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6: A61K 39/00, 39/39, 39/395, C07K 16/28	A2	(11) International Publication Number: WO 97/38711
		(43) International Publication Date: 23 October 1997 (23.10.97)
(21) International Application Number: PCT/GE	97/009	(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE,
(22) International Filing Date: 8 April 1997 (08.04.97)		GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT,
(30) Priority Data: 9607711.0 13 April 1996 (13.04.96)	G	UA, UG, US, UZ, VN, YU, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI
(71) Applicant (for all designated States except US): THE UNIVER- SITY OF SHEFFIELD [GB/GB]; Western Bank, Sheffield, South Yorkshire S10 2TN (GB).		patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).
(72) Inventor; and (75) Inventor/Applicant (for US only): HEATH, Andrew, William [GB/GB]; University of Sheffield Medical School of Medical, Microbiology, Beech Hill Road, Sheffield S10 2RX [6] (GB).		d- upon receipt of that report.
(74) Agent: JONES, William; The Crescent, 54 Blosso York YO2 2AP (GB).	m Stre	et,
III Control of the co		
the state of the s		
(64) Title: T. CELL DEPENDENT VACCINE AND THE CELL SURFACE RECEPTOR CD28		

(57) Abstract

The invention relates to a novel vaccine suitable for enhancing T-cell dependent immunity comprising a T-cell dependent antigen, such as a soluble protein, and an associated adjuvant, the adjuvant being adapted to stimulate a T-cell lymphocyte via the cell surface receptor CD28.